

SEQUENCE LISTING

<110> LAWLOR, ELIZABETH JANE

<120> NOVEL COMPOUNDS

<130> GM10253B-3C1D1

<140> TO BE ASSIGNED

<141> 2003-06-26

<150> 10/187,641

<151> 2002-07-01

<150> 10/025,189

<151> 2001-12-19

<150> 09/432,692

<151> 1999-11-03

<150> 08/844,056

<151> 1997-04-18

<150> GB 9607999.1

<151> 1996-04-18

<160> 6

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1998

<212> DNA

<213> Streptococcus pneumoniae

<220> unknown

<221>

<222> (123)

<223> Where n can be a, c, t, or g

<400> 1

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ggntacgatg tatttatct gacaggtctt gatgaacatg gtcagaaaat ccagcagaaa 180
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<210> 2

<211> 665

<212> PRT

<213> Streptococcus pneumoniae

<400> 2

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Leu	Ala	Arg	Tyr	Lys	Arg	Leu	Met	Gly	Tyr	Asp	Val	Phe	Tyr	Leu	Thr
							35		40				45		
Gly	Leu	Asp	Glu	His	Gly	Gln	Lys	Ile	Gln	Gln	Lys	Ala	Glu	Glu	Ala
							50		55			60			
Gly	Ile	Thr	Pro	Gln	Ala	Tyr	Val	Asp	Gly	Met	Ala	Val	Gly	Val	Lys
							65		70			75			80
Glu	Leu	Trp	Gln	Leu	Leu	Asp	Ile	Ser	Tyr	Asp	Lys	Phe	Ile	Arg	Thr
							85			90			95		
Thr	Asp	Asp	Tyr	His	Glu	Lys	Val	Val	Ala	Gln	Val	Phe	Glu	Arg	Leu
							100		105			110			
Leu	Ala	Gln	Asp	Asp	Ile	Tyr	Leu	Gly	Glu	Tyr	Ser	Gly	Trp	Tyr	Ser
							115		120			125			
Val	Ser	Asp	Glu	Glu	Phe	Phe	Thr	Glu	Ser	Gln	Leu	Ala	Glu	Val	Phe
							130		135			140			
Arg	Asp	Glu	Ala	Gly	Asn	Val	Thr	Gly	Gly	Ile	Ala	Pro	Ser	Gly	His
							145		150			155			160
Glu	Val	Glu	Trp	Val	Ser	Glu	Glu	Ser	Tyr	Phe	Leu	Arg	Leu	Ser	Lys
							165			170			175		
Tyr	Gln	Asp	Arg	Leu	Val	Glu	Phe	Phe	Lys	Ala	His	Pro	Glu	Phe	Ile
							180		185			190			
Thr	Pro	Asp	Gly	Arg	Leu	Asn	Glu	Met	Leu	Arg	Asn	Phe	Ile	Glu	Pro
							195		200			205			
Gly	Leu	Glu	Asp	Leu	Ala	Val	Ser	Arg	Thr	Thr	Phe	Thr	Trp	Gly	Val
							210		215			220			
Pro	Val	Pro	Ser	Asn	Pro	Lys	His	Val	Val	Tyr	Val	Trp	Ile	Asp	Ala
							225		230			235			240
Leu	Leu	Asn	Tyr	Ala	Thr	Ala	Leu	Gly	Tyr	Ala	Gln	Asp	Glu	His	Gly
							245			250			255		
Asn	Phe	Asp	Lys	Phe	Trp	Asn	Gly	Thr	Val	Phe	His	Met	Val	Gly	Lys
							260		265			270			
Asp	Ile	Leu	Arg	Phe	His	Ser	Ile	Tyr	Trp	Pro	Ile	Leu	Leu	Met	Met
							275			280			285		

Leu Asp Val Lys Leu Pro Asp Arg Leu Ile Ala His Gly Trp Phe Val
290 295 300
Met Lys Asp Gly Lys Met Ser Lys Ser Lys Gly Asn Val Val Tyr Pro
305 310 315 320
Glu Met Leu Val Glu Arg Tyr Gly Leu Asp Pro Leu Arg Tyr Tyr Leu
325 330 335
Met Arg Asn Leu Pro Val Gly Ser Asp Gly Thr Phe Thr Pro Glu Asp
340 345 350
Tyr Val Gly Arg Ile Asn Tyr Glu Leu Ala Asn Asp Leu Gly Asn Leu
355 360 365
Leu Asn Arg Thr Val Ser Met Ile Asn Lys Tyr Phe Asp Gly Gln Ile
370 375 380
Pro Ala Tyr Val Glu Gly Val Thr Glu Phe Asp His Val Leu Ala Glu
385 390 395 400
Val Ala Glu Lys Ser Ile Ala Asp Phe His Thr His Met Glu Ala Val
405 410 415
Asp Tyr Pro Arg Ala Leu Glu Ala Val Trp Thr Leu Ile Ser Arg Thr
420 425 430
Asn Lys Tyr Ile Asp Glu Thr Ala Pro Trp Val Leu Asp Lys Asp Glu
435 440 445
Ala Leu Arg Asp Gln Leu Ala Ser Val Met Ser His Trp Gln Ala Ser
450 455 460
Ile Arg Val Val Ala His Leu Ile Glu Pro Phe Met Met Glu Thr Ser
465 470 475 480
Arg Ala Val Leu Thr Gln Ile Gly Leu Glu Glu Val Ser Ser Leu Glu
485 490 495
Asn Leu Ser Leu Ala Asp Phe Pro Ala Asp Val Thr Val Val Ala Lys
500 505 510
Gly Thr Pro Ile Phe Pro Arg Leu Asn Met Glu Glu Glu Ile Ala Tyr
515 520 525
Ile Lys Glu Gln Met Glu Gly Asn Lys Pro Ala Val Glu Lys Glu Trp
530 535 540
Asn Pro Asp Glu Val Glu Leu Lys Leu Asn Lys Asp Glu Ile Lys Phe
545 550 555 560
Glu Asp Phe Asp Lys Val Glu Ile Arg Val Ala Glu Val Lys Glu Val
565 570 575
Ser Lys Val Glu Gly Ser Asp Lys Leu Leu Gln Phe Arg Leu Asp Ala
580 585 590
Gly Asp Gly Glu Asp Arg Gln Ile Leu Ser Gly Ile Ala Lys Tyr Tyr
595 600 605

Pro Asn Glu Gln Glu Leu Val Gly Lys Val Gln Ile Val Ala Asn
610 615 620
Leu Lys Pro Arg Lys Met Met Lys Lys Tyr Val Ser Gln Gly Met Ile
625 630 635 640
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Ala Val Pro Asn Gly Ser Val Ile Gly
660 665

<210> 3
<211> 348
<212> DNA
<213> Streptococcus pneumoniae

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gatgctggtg atggagaaga tcgtcagatt ctttcagggaa ttgcaaaata ctatccaaat 180
gaacaagaat tggtcggcaa gaaaagttcaa atcgttgcta acctcaaacc acgtaaaatg 240
atgaaaaaat atgtcagcca gggtatgatt ctctcagctg aacatgatgg caaattaacc 300
cttctcacag ttgatccagc tgtaccaaattt ggaagtgtga ttggtaa 348

<210> 4
<211> 115
<212> PRT
<213> Streptococcus pneumoniae

<400> 4
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Asp Lys Leu Leu Gln Phe Arg Leu Asp Ala Gly Asp Gly Glu Asp Arg
35 40 45
Gln Ile Leu Ser Gly Ile Ala Lys Tyr Tyr Pro Asn Glu Gln Glu Leu
50 55 60
Val Gly Lys Lys Val Gln Ile Val Ala Asn Leu Lys Pro Arg Lys Met
65 70 75 80
Met Lys Lys Tyr Val Ser Gln Gly Met Ile Leu Ser Ala Glu His Asp

	85	90	95
Gly Lys Leu Thr Leu Leu Thr Val Asp Pro Ala Val Pro Asn Gly Ser			
	100	105	110
Val Ile Gly			
	115		

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<211> 24
<212> DNA
<213> *Streptococcus pneumoniae*

<400> 5
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<210> 6
<211> 24
<212> DNA
<213> *Streptococcus pneumoniae*

<400> 6
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